

WHAT IS CLAIMED IS:

5 1. A method for concealing a parameter transferred between a first and second device, characterized by: generating by the first device a control signal and a parameter signal;

transmitting by the first device to the second device the control signal and the parameter signal;

10 receiving by the second device from the first device the control signal and the parameter signal; and

generating by the second device a destination parameter signal using the control signal and the parameter signal.

15 2. The method of claim 1, further characterized by:

generating by the first device a first key signal using the control signal; and

20 generating by the first device the parameter signal by transforming a source parameter signal using the first key signal.

3. The method of claim 2, further characterized by:

25 generating by the second device a second key signal using the control signal; and

generating by the second device the destination parameter signal by inversely transforming the parameter signal using the second key signal.

30 4. The method of claim 3, further characterized by:

generating by the first device a key index signal;

generating by the first device a key variable signal;

transmitting by the first device to the second the key index signal and the key variable signal;

receiving by the second device from the first device
the key index signal and the key variable signal;

5 generating by the second device an intermediate key
signal using the key index signal and a key table; and

generating by the second device the second key signal
using the intermediate key signal and the key variable
signal.

10

5. The method of claim 4, further characterized by generating
by the second device the second key signal from the
intermediate key signal and the key variable signal using
a hash function.

15

6. The method of claim 3, further characterized by:
transforming by the first device a portion of the
control signal with the source parameter signal to generate
the parameter signal; and

20

generating by the second device from the parameter
signal using the second key signal an inversely transformed
control signal portion; and

comparing by the second device the inversely
transformed control signal portion to a portion of the
received control signal.

25

7. An apparatus for processing a concealed parameter received
by a device, characterized by:

a control logic block to receive a control signal and
a parameter signal; and

30

an interface operation logic block operably coupled
the control signal block to generate a destination
parameter signal using the control signal and the parameter
signal.

35

8. The apparatus of claim 7, further characterized by:

5 a key table module including indexed transformation keys, the key table module operably coupled to the control logic block, the key table module to generate a key signal using the control signal; and

10 an inverse transformation module operably coupled to the key table module and the control logic block, the inverse transformation module to generate the destination parameter signal by inversely transforming the parameter signal using the key signal.

9. The apparatus of claim 7, further characterized by:

15 a key table module including indexed transformation keys, the key table module operably coupled to the control logic block, the key table module to generate an intermediate key signal using a key index signal received from the control logic block;

20 a key interface stage operably coupled to the key table module and the control logic block for generating a key signal using the intermediate key signal received from the key table module and a key variable signal received from the control logic block; and

25 an inverse transformation module operably coupled to the key interface stage and the control logic block, the inverse transformation module to generate the destination parameter signal by inversely transforming the parameter signal using the key signal received from the key interface stage.
30

10. The apparatus of claim 9 further characterized by a hash function stage operably coupled to the key interface stage, the hash function stage to generate the key signal from the intermediate key signal and the key variable signal.
35